

REPORT ON BOILERS.

No. 25678

Received at London Office

JUN 14 1937

Date of writing Report

1-6-1937

When handed in at Local Office

192

Port of

Rotterdam.

No. in Survey held at

Schiedam

Date, First Survey

13-1-37

Last Survey

5-2-1937

Reg. Book.

on the

motor vessel

"NEDERLAND"

(Number of Visits 4.)

Tons

Gross 8147

Net 4762

Master

Built at

Schiedam

By whom built

Wilton-Fryer's Yard No. 660

When built '37

Engines made at

So.

By whom made

So

Engine No. 1057

When made '37

Boilers made at

So.

By whom made

So

Boiler No. 1465

When made '37

Nominal Horse Power

Owners Nedelandische Pacific Tankers Inc. Port belonging to 's Gravenhage.

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY, OR DONKEY.~~ ^{exhaust gas.}

Manufacturers of Steel

Messrs V.A. Konice Mines Steel & Iron works Corp.

(Letter for Record S)

Total Heating Surface of Boilers

110.5 m²

Is forced draught fitted

✓

Coal or Oil fired

exhaust gas.

No. and Description of Boilers

One horizontal multitubular boiler.

Working Pressure 100 lb.

Tested by hydraulic pressure to

200 lb.

Date of test

5-2-37

No. of Certificate

989

Can each boiler be worked separately

✓

Area of Firegrate in each Boiler

✓

No. and Description of safety valves to each boiler

2 high lifting spring loaded valves.

Area of each set of valves per boiler

per Rule

as fitted

2 x 40 mm.

Pressure to which they are adjusted

100 lb.

Are they fitted with easing gear

Yes.

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

✓

No

Ltr. 21-6-37.

Smallest distance between boilers or uptakes and bunkers or woodwork

top engine room off

Is oil fuel carried in the double bottom under boilers

✓

Smallest distance between shell of boiler and tank top plating

✓

Is the bottom of the boiler insulated

Yes.

Largest internal dia. of boilers

2150 mm.

Length

2006 mm.

Shell plates: Material

S.M. steel

Tensile strength

44-50 kg/cm²

Thickness

11 mm.

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end 1 x riv lap.

long. seams

double butt

2 x riv.

Diameter of rivet holes in

circ. seams 20 mm

Pitch of rivets

52 mm

Percentage of strength of circ. end seams

plate

61.5 %

Percentage of strength of circ. intermediate seam

plate

✓

Percentage of strength of longitudinal joint

plate

73.3 %

Working pressure of shell by Rules

7.36 kg.

Percentage of strength of longitudinal joint

rivets

14 %

Working pressure of shell by Rules

7.36 kg.

Thickness of butt straps

outer 11 mm.

inner 11 mm.

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

✓

Thickness of plates

crown

✓

Description of longitudinal joint

✓

Dimensions of stiffening rings on furnace or c.e. bottom

✓

Working pressure of furnace by Rules

✓

End plates in steam space: Material

S.M. steel

Tensile strength

41-47 kg/cm²

Thickness

10 mm

Pitch of stays

345 mm

How are stays secured

nuts & washers

Working pressure by Rules

7.36 kg.

Tube plates: Material

front

✓

back

S.M. steel

Tensile strength

41-47 kg/cm²

Thickness

10 mm

Mean pitch of stay tubes in nests

201 x 260 mm

Pitch across wide water spaces

134 x 344 mm

Working pressure

front 11.5 kg/cm²

back 14.75 in mts.

Girders to combustion chamber tops: Material

✓

Tensile strength

✓

Depth and thickness of girder

at centre

✓

Length as per Rule

✓

Distance apart

✓

No. and pitch of stays

in each

✓

Working pressure by Rules

✓

Combustion chamber plates: Material

✓

Tensile strength

✓

Thickness: Sides

✓

Back

✓

Top

✓

Bottom

✓

Pitch of stays to ditto: Sides

✓

Back

✓

Top

✓

Are stays fitted with nuts or riveted over

✓

Working pressure by Rules

✓

Front plate at bottom: Material

S.M. steel

Tensile strength

41-47 kg/cm²

Thickness

10 mm

Lower back plate: Material

S.M. steel

Tensile strength

41-47 kg/cm²

Thickness

18

Pitch of stays at wide water space

✓

Are stays fitted with nuts or riveted over

✓

Working Pressure

✓

Main stays: Material

S.M. steel

Tensile strength

44-50 kg/cm²

Diameter

At body of stay,

44.45 - 38 mm

No. of threads per inch

9

Area supported by each stay

Over threads

2" - 1 3/4"

No. of threads per inch

9

Area supported by each stay

Working pressure by Rules

✓

Screw stays: Material

✓

Tensile strength

✓

Diameter

At turned off part,

✓

No. of threads per inch

✓

Area supported by each stay

✓

Over threads

✓

No. of threads per inch

✓

Area supported by each stay

✓

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Foundation

Working pressure by Rules ☒ Are the stays drilled at the outer ends ☒ Margin stays: Diameter ☒ At turned off part, ☒ Over threads ☒

No. of threads per inch ☒ Area supported by each stay Working pressure by Rules ☒

Tubes: Material *steel* External diameter ☒ Plain *1 3/4"* Thickness *2.946 mm* No. of threads per inch *9*

Pitch of tubes *64 mm* Working pressure by Rules *ample* Manhole compensation: Size of opening in shell plate *300 x 500 mm* Section of compensating ring *596 x 696 mm* No. of rivets and diameter of rivet holes *48 x 20 mm*

Outer row rivet pitch at ends *80 mm* Depth of flange if manhole flanged *80 mm* Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint ☒ Plate ☒ Rivets

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays

How connected to shell Inner radius of crown Working pressure by Rules

Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of Tubes Steel castings

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes, castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with *Yes*

WILSON FIJENOORD.
(N.V. WILSON's Machinefabriek en Scheepswerf
(WILTON's Engineering & Shipway Co.)
Mantschappij van Schaep- en Wapenbouw
Rotterdam - 1916)

The foregoing is a correct description,

Manufacturer.

Dates of Survey ☒ During progress of work in shops - - *13-10-29*
☒ While building ☒ During erection on board vessel - - - *5-2-37*

Are the approved plans of boiler and superheater forwarded herewith *4-10-36*
(If not state date of approval.)

Total No. of visits *4*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been made in accordance with the approved plan, Secretary's letters and Society's Rules. Material tested as required and workmanship good.*

Survey Fee £ *94.80*

Travelling Expenses (if any) :

When applied for, *10.6.1937*

When received, *30.6.1937*

Off Bourse

Engineer-Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 18 JUN 1937

Assigned

See L.E. Mchey Rpt.



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The for
Machine

Date of writing Rep

No. in Survey
Reg. Book.

on the

Built at *Ros*

Owners *Sh*

Oil Engines m

Generators ma

No. of Sets *0*

OIL ENGINE

Maximum pressure

Span of bearings, c

Revolutions per mi

Crank Shaft, di

Flywheel Shaft

Is a governor or o

Are the cylinders f

Cooling Water

Lubricating Oil

Air Compressor

Scavenging Air

AIR RECEL

Can the internal s

Is there a drain a

High Pressure

Seamless, lap weld

Starting Air Re

Seamless, lap weld

ELECTRIC

Pressure of supp

If alternating cur

Has the Automa

Generators, do

are they over comp

is an adjustable re

are they so spaced

PLANS. Are

SPARE GE